

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

FIG. 1

Frequency of PAX5 α and β methylation in tumor cell line
primary tumors and non-malignant specimens

Sample Type	Samples Assayed	Number Methylated (%)		
		Alpha	Beta	Alpha + Beta
Breast				
Tumor Cell Lines	10	9 (90)	6 (60)	6 (60)
Tumors	30	21 (70)	15 (50)	11 (37)
Lung				
Tumor Cell Lines	11	9 (82)	6 (55)	6 (55)
Tumors				
ADC	25	16 (64)	13 (52)	10 (40) ^c
SCC	23	17 (74)	14 (61)	12 (52) ^c
Colon				
Tumors	42	9 (21) ^d	14 (33) ^d	4 (9.5)
BECs ^a	35	1 (2.9)	1 (2.9)	0 (0)
Sputum ^a	39	5 (13)	1 (2.6)	0 (0)
Blood lymphocytes ^b	20	0 (0)	0 (0)	0 (0)

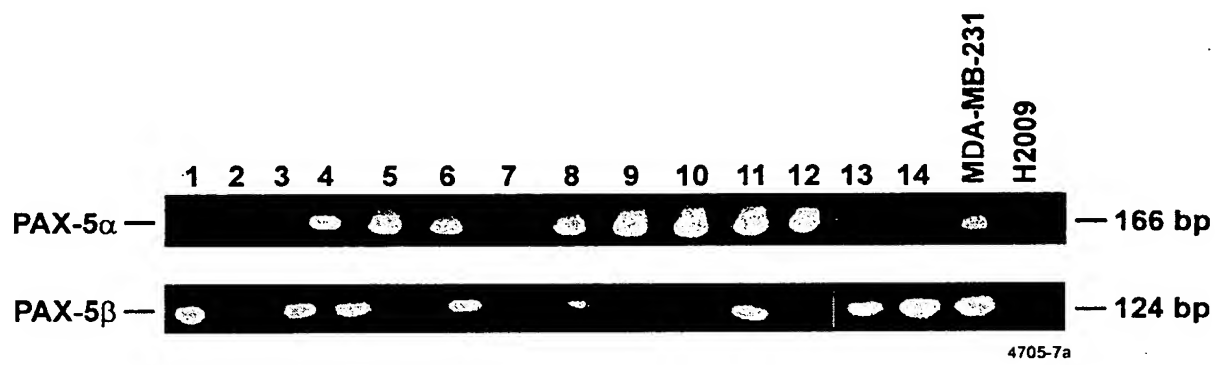
^a Cancer-free heavy smokers

^b Cancer-free nonsmokers

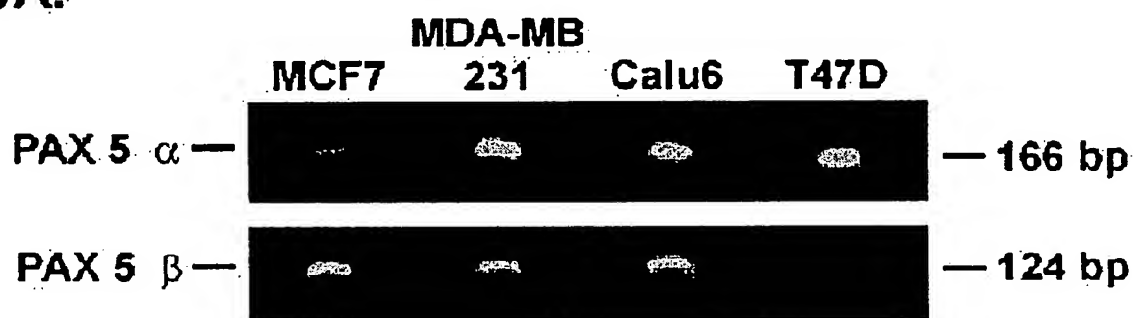
^c $p=0.05$ for association of PAX5 α methylation to β methylation in lung tumors.

^d $p<0.0001$ as compared to methylation in lung or breast tumors.

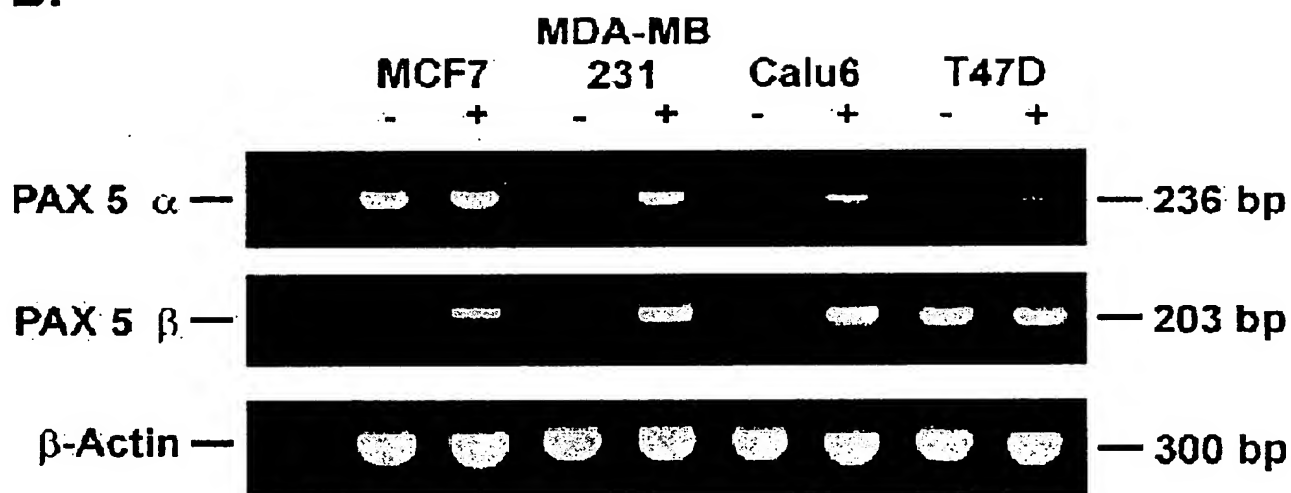
FIG. 2



**FIG.
3A.**



**FIG.
3B.**



4705-2

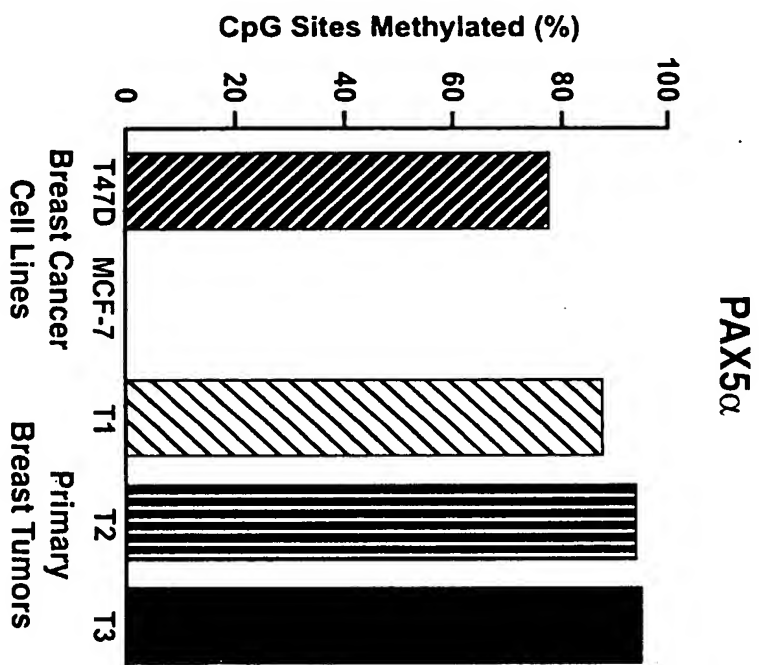


FIG. 4A

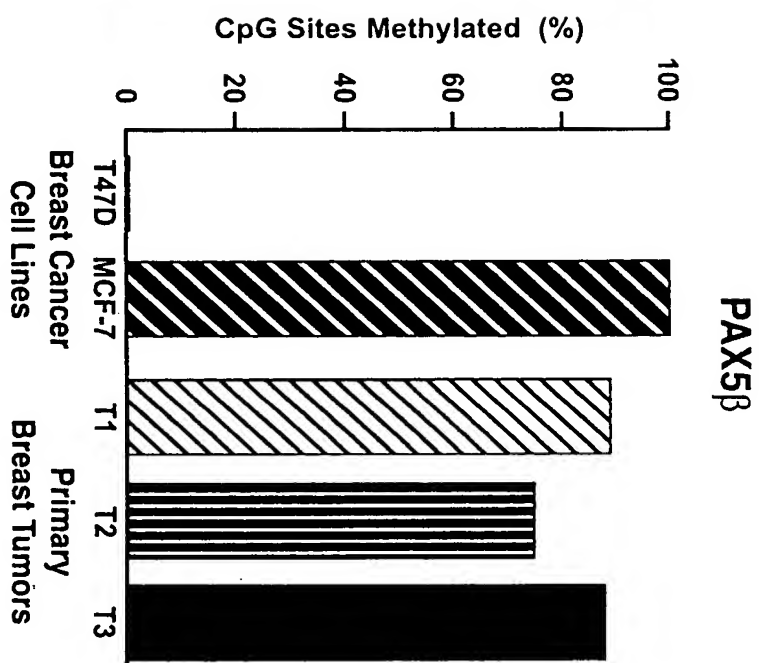


FIG. 4B

FIG. 5

Frequency of methylation of the Novel Helix Loop Helix Binding Protein, Novel Gene 2, and Beta3 genes in tumor cell lines, primary tumors and non-malignant specimens

Sample Type	HLHBP	Number Methylated (%)	
		Novel Gene 2	Beta 3
Breast			
Tumor Cell Lines	8/10 (80)	5/8 (63)	6/10 (60)
Tumors	ND	ND	6/15 (40)
Lung			
Tumor Cell Lines	8/11 (73)	1/7 (14)	1/12 (8)
Tumors			
ADC	ND	ND	11/21 (52)
SCC	13/22 (59)	ND	1/14 (7)
Blood lymphocytes ^a	0/11 (0)	0/11 (0)	0/11 (0)

HLHBP, helix loop helix binding protein, ADC, adenocarcinoma; SCC, squamous cell carcinoma; BECs, bronchial epithelial cells

^aCancer-free nonsmokers

ND, not determined